

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
31 December 2003 (31.12.2003)

PCT

(10) International Publication Number  
**WO 2004/001308 A1**

(51) International Patent Classification<sup>7</sup>: **F26B 21/06,**  
B01D 24/00

V. [US/US]; 3688 Napanee Drive, Beavercreek, OH 45430 (US).

(21) International Application Number:  
PCT/US2003/017445

(74) Agent: **PEACOCK, Bruce, E.**; Wegman, Hessler & Vanderburg, Suite 200, 6055 Rockside Woods Boulevard, Cleveland, OH 44131 (US).

(22) International Filing Date: 4 June 2003 (04.06.2003)

(81) Designated State (*national*): US.

(25) Filing Language: English

(84) Designated States (*regional*): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

(26) Publication Language: English

(30) Priority Data:  
60/391,446 25 June 2002 (25.06.2002) US

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

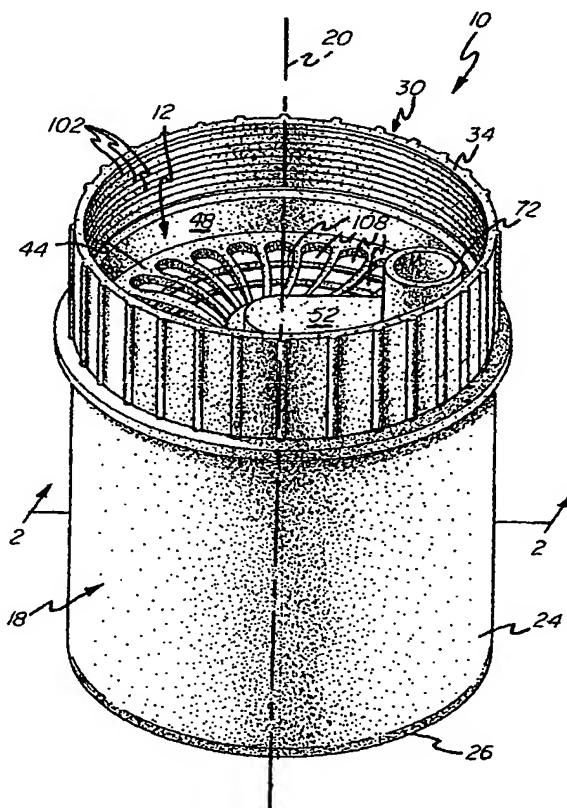
(71) Applicant (*for all designated States except US*): **STAN-HOPE PRODUCTS COMPANY** [US/US]; 379 Albert Road, Brookville, OH 45309 (US).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **FLAUGHER, David,**

(54) Title: **DESICCANT CARTRIDGE HAVING DESICCANT CAP**



(57) Abstract: This invention relates to a desiccant cartridge (10) adapted for use in a canister (14) of an integrated receiver/dryer or accumulator assembly of an automotive air conditioning system wherein the canister (14) has an offset inlet port (16). The desiccant cartridge (10) includes a desiccant cup (18) having a center tube (36) and a desiccant cap (12) including a planar portion (44) having a recessed port area (46) provided with a first aperture (56), or first tube (72), for cooperation with a side tube (78) and/or the offset inlet port (16) of the canister (14). The cap (12) further includes a docking piece (80) provided with a second aperture (88), or second tube (92), for cooperating with the center tube (36) of the cup (18) when the cap (12) is retained therein. Notably, the docking piece (80) is designed to cooperate with the recessed port area (46), preferably via a snap fit, to define a passageway (98) therebetween so that gas and/or fluid can enter the canister (14) via the inlet port (16), circulate through the desiccant cartridge (10), and finally exit via an outlet port (126).

WO 2004/001308 A1